Please check the examination details be	low before enter	ring your candidate information
Candidate surname		Other names
Centre Number Learn	er Registration	n Number
Centre Number Learn	er Registration	T Number
Pearson BTEC Level 3 Nationals E Foundation Diploma, Diploma, Ex		•
Time 2 hours	Paper reference	31760H
Information Tech UNIT 1: Information Tech		•
You do not need any other materia	ls.	Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and learner registration number.
- Answer **all** questions.
- Answer the questions in the spaces provided
 - there may be more space than you need.

Information

- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets
 - use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶



DO NOT WRITE IN THIS AREA

	James is a painter and decorator. He creates video files to advertise his business on	line
		mic.
	(a) James uses his account to upload his videos to an online forum.	
	(i) James must change his password regularly.	
	One feature of a strong password is that it must have a minimum of eight characters.	
	Give two other features of a strong password.	(2)
		(2)
	(ii) Changing his password regularly is one way James can keep his password secure.Give two other ways that James can keep his password secure.	
		(2)
•		

DO NOT WRITE IN THIS AREA

(iii) Explain one way, other than using an online forum, in which James can communicate and interact with online communities.	(2)
(b) James stores his files with a cloud storage provider. The cloud storage provider has recently been hacked and data has been breached.	
Explain one potential impact to James and one potential impact to the cloud storage provider of this data breach.	(4)
James	(4)
Cloud storage provider	



DO NOT WRITE IN THIS AREA

(c) James is considering different options to store and backup his video files.			
Explain two benefits of using removable storage.			
	(4)		

DO NOT WRITE IN THIS AREA

Describe how James can p	protect his computer fr	om harmful downloa	nds
Describe now James can p	notect his computer in	om nammar downloa	(4)



DO NOT WRITE IN THIS AREA

Discuss the accessible	e teatures of the video file formats		-1
accessione	on all platforms	he could use to make sure	e they are
	on an plationnis.		(6)
		(Total for Question	n 1 = 24 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

BLANK PAGE

QUESTION 2 BEGINS ON THE NEXT PAGE.



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

2 Patricia is the manager of a gaming shop. The shop sells a range of games and gaming consoles.

Patricia collects and stores details of customers, stock and sales in a computerised stock control database system.

(a) Figure 1 shows an input form Patricia has designed to collect data.

	Account No. * ABC-12345-PR
Customer Title *	Date of birth (dob) *
Mr V	dd/mm/yyyy 📋
Surname*	James *
Lewis	James
First line of address *	
123 High Street	
Second line of address *	
High Green	
Town *	Postcode *
Smallville	SM12 3PT
Tel Number (home) *	Mobile number
(01234) 567890	
Product number *	
765/074728	

Figure 1

DO NOT WRITE IN THIS AREA

tn	ne data in the da	tabase.		(6)



DO NOT WRITE IN THIS AREA

Validation is one method that can be used to ensure the data are accurate befithey are stored in the database.	ore
(ii) Explain one other method that could be used.	(2)
(b) Explain two benefits of using a computerised stock control system.	(4)
2	

DO NOT WRITE IN THIS AREA

	The reports include:	
	 the number of sales by each member of staff the number of sales for each product. 	
	Patricia wants to display the results of the data visually, but she is not sure which type of chart is more suitable.	
	Discuss the differences between a pie chart and a line chart to display these type of information.	es .
		(8)
••••		



(Total for Question 2 = 20 marks)
DO NOT WRITE IN THIS ARE
DO NOT WRITE IN THIS AREA
OT WRITE IN THIS AREA
WRITE IN THIS AREA
TE IN THIS AREA
VTHIS AREA
IS AREA
97
DO NOT WRITE IN THIS AREA
FF A

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

BLANK PAGE

QUESTION 3 BEGINS ON THE NEXT PAGE.



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

3 Molly is an architect who works from home.

Molly's study has a desktop PC and a printer. She uses the PC to create designs. She uses the printer to print hardcopies of the final designs.

Molly uses a smartphone and tablet. When she visits her clients she uses the tablet to show them the designs.

Molly's children use a laptop, tablet and smartphone.

There is a games room in Molly's house. There are two gaming consoles and a smart TV in the games room.

There is a smart TV in the lounge.

Access to the internet is essential.

(a) Draw a diagram to show Molly's home network.

The diagram should include devices and systems that are used, including:

- desktop PC and printer (study)
- laptop
- tablet
- smartphone
- gaming console (games room)
- smart TVs (games room and lounge)
- connection type(s) used
- · annotations.



DO NOT WRITE IN THIS AREA

this space to draw your diagram for Q3a.	(6)

DO NOT WRITE IN THIS AREA

Describe how encryption works to enable the plans to be transmitted securely.	(4)
c) Modern gaming consoles are multifunctional devices.	
Explain the purpose of a multifunctional device.	(2)

DO NOT WRITE IN THIS AREA

(d) Gaming consoles often use wireless controllers.	
Explain two benefits of using wireless controllers.	
	(4)
1	
2	



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(e) Molly's children play online games, and they also communicate with other online gamers.	
Molly is concerned about the risks involved in online communication.	
Discuss the potential risks with online communication.	
	(8)
(Total for Question 3 = 2	24 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

BLANK PAGE

QUESTION 4 BEGINS ON THE NEXT PAGE.



DO NOT WRITE IN THIS AREA

4	ESC	G is an organisation that provides training courses.	
	(a)	The training courses help people with a disability or impairment to use PCs and other digital devices.	
		Analyse the features and uses of suitable peripheral accessibility devices that could be used in the training courses.	
			(10)

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

(b) The training courses are run from the ground floor of a two-storey building. The first floor has just become vacant.	
At the moment the administration team currently works in a different building.	
ESG has decided to move the administration team to the first floor.	
A local area network (LAN) will be used to connect the computers.	
Cost is one factor that will affect ESG's choice of network.	
Discuss the implications of installing a new network for ESG and its employees.	
	(12)



DO NOT WRITE IN THIS AREA

(Total for Question 4 = 22 marks)
TOTAL FOR PAPER = 90 MARKS



BLANK PAGE